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OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

FA SOUTHEAST

Site Name: SGS Thomson Micro Electronics
CERCLIS ID No.: NJD044655140
Street Address: 100 Schoolhouse Road (14/25)
City/State/Zip: Somerset, NJ 08873

Investigator: Dorothea Downs
Agency/Organization: Ebasco Services, Inc.
Street Address: 111 N. Canal Street
City/State: Chicago, IL

Date: 9/25/92

DECLASSIFIED

7/28/17
Date: Initial: JH

267054



WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

1 Former Waste Storage	Contaminated soil	Ref: 33	WQ value	maximum
Area	1.20E+02 sq ft		3.53E-03	3.53E-03
2 Exist Storage Area	Drums	Ref:1,2,28	WQ value	maximum
Volume	3.00E+00 drums		3.00E-01	3.00E-01
3 Neutralization Tank	Non-drum containers	Ref: 28	WQ value	maximum
Volume	1.00E+03 gals		2.00E+00	2.00E+00
4 Equilization Tank	Non-drum containers	Ref: 7,28	WQ value	maximum
Volume	1.00E+03 gals		2.00E+00	2.00E+00
5 HCL Tank	Non-drum containers	Ref: 28	WQ value	maximum
Volume	2.00E+03 gals		4.00E+00	4.00E+00
6 NaOH Tank	Non-drum containers	Ref: 28	WQ value	maximum
Volume	4.50E+03 gals		9.00E+00	9.00E+00

WQ total 1.73E+01

** Only First WC Page Is Printed ** | Waste Characteristics Score: WC = 18

Ground Water Pathway Criteria List
Suspected Release

Are sources poorly contained? (y/n/u)	N
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	N
Is precipitation heavy? (y/n/u)	N
Is the infiltration rate high? (y/n/u)	N
Is the site located in an area of karst terrain? (y/n)	N
Is the subsurface highly permeable or conductive? (y/n/u)	N
Is drinking water drawn from a shallow aquifer? (y/n/u)	Y
Are suspected contaminants highly mobile in ground water? (y/n/u)	Y
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	Y
Other criteria? (y/n)	N

SUSPECTED RELEASE? (y/n) Y

Summarize the rationale for Suspected Release:

Existing analytical data indicate groundwater is contaminated with
1-1-1 TCE, 1-1-2 TCE, and 1-1 DCE.

Ref: 1, 2, 10, 11

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Ground Water Pathway Criteria List
Primary Targets

Is any drinking water well nearby? (y/n/u)	Y
Has any nearby drinking water well been closed? (y/n/u)	N
Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)	N
Does any nearby well have a large drawdown/high production rate? (y/n/u)	N
Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)	N
Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)	N
Does any drinking water well warrant sampling? (y/n/u)	N
Other criteria? (y/n)	N

PRIMARY TARGET(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Targets:

GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics

			Ref.
Do you suspect a release? (y/n)			Yes
Is the site located in karst terrain? (y/n)			No
Depth to aquifer (feet):			19
Distance to the nearest drinking water well (feet):			0 ←
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =	550	0	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	377	0	
5. NEAREST WELL	20	0	
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0	
7. RESOURCES	5	0	
T =	402	0	

WASTE CHARACTERISTICS

WC =	18	0
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GROUND WATER PATHWAY SCORE:

48

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Ground Water Target Populations

Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
None				
*** Note : Maximum of 5 Wells Are Printed ***				Total

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	36	28	5
Greater than 1/4 to 1/2 mile	10	25	1
Greater than 1/2 to 1 mile	3252	25	167
Greater than 1 to 2 miles	5298	25	94
Greater than 2 to 3 miles	3298	25	68
Greater than 3 to 4 miles	3298	25	42
			Total
			377

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Apportionment Documentation for a Blended System

On-site workers draw drinking water from an on-site well that has a depth of greater than 300'. Groundwater contamination is shown to exist to a depth of only 70'.

Ref: 2

Surface Water Pathway Criteria List
Suspected Release

Is surface water nearby? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	Y
Is the drainage area large? (y/n/u)	N
Is rainfall heavy? (y/n/u)	N
Is the infiltration rate low? (y/n/u)	Y
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	N
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	N
Is vegetation stressed along the probable runoff path? (y/n/u)	N
Are sediments or water unnaturally discolored? (y/n/u)	N
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? (y/n/u)	N
Is ground water discharge to surface water likely? (y/n/u)	N
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	N
Other criteria? (y/n)	N

SUSPECTED RELEASE? (y/n) N

Summarize the rationale for Suspected Release:

Analytical data shows that migration has not reached surface water bodies. Prior remedial actions have removed the source.

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Surface Water Pathway Criteria List
Primary Targets

Is any target nearby? (y/n/u) If yes: Y
Y Drinking water intake
Y Fishery
Y Sensitive environment

Has any intake, fishery, or recreational area been closed? (y/n/u) N

Does analytical or circumstantial evidence suggest surface water
contamination at or downstream of a target? (y/n/u) N

Does any target warrant sampling? (y/n/u) If yes: N
N Drinking water intake
N Fishery
N Sensitive environment

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Intakes:

continued -----

continued -----

Other criteria? (y/n) N

PRIMARY FISHERY(IES) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Fisheries:

The Randolph Brook, Raritan River, Delaware-Raritan Canal, and Raritan Bay are fisheries along the downstream surface water pathway.

Ref: 13, 14, 22, 23

Other criteria? (y/n) N

PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Sensitive Environments:

Downstream sensitive environments include Wetlands, Randolph Brook, Raritan River, Delaware-Raritan Canal, and Raritan Bay.

Ref: 13, 14, 21

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SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics

Pathway Characteristics			Ref.
Do you suspect a release? (y/n)	No		
Distance to surface water (feet):	2150		28
Flood frequency (years):	>500		28
What is the downstream distance (miles) to:			
a. the nearest drinking water intake?	9.0		
b. the nearest fishery?	0.4		
c. the nearest sensitive environment?	0.2		
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	3	
6. NEAREST INTAKE	0	1	
7. RESOURCES	0	5	
T =	0	9	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
1 Middlesex WC	N	>100-1000 cfs	125000	18	0
2 New Brunswick	N	>100-1000 cfs	100000	18	0
Total Primary Target Population Value					0
Total Secondary Target Population Value					0

*** Note : Maximum of 6 Intakes Are Printed ***

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Apportionment Documentation for a Blended System

Public drinking water supplies are not from a blended system.

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Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	0	210	
T =	0	210	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Randolph Brook	N	<10 cfs	28	210
2 Raritan River	N	>1000-10000 cfs	28	12
3 Delaware-Raritan Canal	N	>1000-10000 cfs	28	12
4 Raritan Bay	N	Coastal, ocean, Gr. Lake	28	12
Total Primary Fisheries Value				0
Total Secondary Fisheries Value				0

*** Note : Maximum of 6 Fisheries Are Printed ***

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Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECONDARY SENSITIVE ENVIRONS.	0	150	
T =	0	150	

Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Wetlands	N	<10 cfs	28	150
2 Raritan River	N	>1000-10000 cfs	28	0
3 Delaware-Raritan Canal	N	>1000-10000 cfs	28	0
4 Raritan Bay	N	Coastal, ocean, Gr. Lake	28	0
None				
Total Primary Sensitive Environments Value				0
Total Secondary Sensitive Environments Value				0
*** Note: Maximum of 6 Sensitive Environments Are Printed ***				

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Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score	Targets(T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	500	9	18	1
Human Food Chain	500	210	18	23
Environmental	500	150	18	16

SURFACE WATER PATHWAY SCORE:

40

Soil Exposure Pathway Criteria List
Resident Population

Is any residence, school, or daycare facility on or
within 200 feet of an area of suspected contamination? (y/n/u) N

Is any residence, school, or daycare facility located on adjacent
land previously owned or leased by the site owner/operator? (y/n/u) N

Is there a migration route that might spread hazardous
substances near residences, schools, or daycare facilities? (y/n/u) N

Have onsite or adjacent residents or students reported adverse
health effects, exclusive of apparent drinking water or air
contamination problems? (y/n/u) N

Does any neighboring property warrant sampling? (y/n/u) N

Other criteria? (y/n) N

RESIDENT POPULATION IDENTIFIED? (y/n) N

Summarize the rationale for Resident Population:

SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n)	No	7,13
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n)	No	28
Is the facility active? (y/n):	Yes	28

LIKELIHOOD OF EXPOSURE	Suspected Contamination	References
1. SUSPECTED CONTAMINATION LE =	550	

Targets

2. RESIDENT POPULATION 0 resident(s) 0 school/daycare student(s)	0	
3. RESIDENT INDIVIDUAL	0	
4. WORKERS 1 - 100	5	
5. TERRES. SENSITIVE ENVIRONMENTS	100	
6. RESOURCES	5	
T =	110	

WASTE CHARACTERISTICS

WC = 18

RESIDENT POPULATION THREAT SCORE:

13

NEARBY POPULATION THREAT SCORE:

1

Population Within 1 Mile: 1 - 10,000

SOIL EXPOSURE PATHWAY SCORE:

14

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Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
1 Endangered/Threatened Species	23	100
Total Terrestrial Sensitive Environments Value		100
*** Note : Maximum of 7 Sensitive Environments Are Printed ***		

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Air Pathway Criteria List
Suspected Release

Are odors currently reported? (y/n/u) N

Has release of a hazardous substance to the air
been directly observed? (y/n/u) N

Are there reports of adverse health effects (e.g., headaches,
nausea, dizziness) potentially resulting from migration
of hazardous substances through the air? (y/n/u) N

Does analytical/circumstantial evidence suggest release to air? (y/n/u) N

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) N

Summarize the rationale for Suspected Release:

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AIR PATHWAY SCORESHEETS

Pathway Characteristics

			Ref.
Do you suspect a release? (y/n)		No	
Distance to the nearest individual (feet):		700	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION	0	23	
5. NEAREST INDIVIDUAL	0	20	
6. PRIMARY SENSITIVE ENVIRONS.	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	3	
8. RESOURCES	0	5	
T =	0	51	

WASTE CHARACTERISTICS

WC =	0	18
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AIR PATHWAY SCORE:

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Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	36	28	5
Greater than 0 to 1/4 mile	0	28	0
Greater than 1/4 to 1/2 mile	65	13,28	1
Greater than 1/2 to 1 mile	2352	25	3
Greater than 1 to 2 miles	9709	25	3
Greater than 2 to 3 miles	11484	25	4
Greater than 3 to 4 miles	31120	25	7
Total Secondary Population Value			23

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Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		
Total Primary Sensitive Environments Value		

*** Note : Maximum of 7 Sensitive Environments Are Printed***

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
1 Endangered/Threatened Species	0 - 1/4	28	2.5
2 Randolph Brook	>1/4-1/2	28	0.0
Total Secondary Sensitive Environments Value			3

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SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	48
SURFACE WATER PATHWAY SCORE:	40
SOIL EXPOSURE PATHWAY SCORE:	14
AIR PATHWAY SCORE:	6
SITE SCORE:	32

SUMMARY

1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? No

If yes, identify the well(s).

If yes, how many people are served by the threatened well(s)? 0

2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?
- A. Drinking water intake No
 - B. Fishery No
 - C. Sensitive environment (wetland, critical habitat, others) No

If yes, identify the target(s).

3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? No

If yes, identify the properties and estimate the associated population(s)

4. Are there public health concerns at this site that are not addressed by PA scoring considerations? No

If yes, explain:

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REFERENCE LIST

1. ECRA Case #89560 - Results of ECRA Sampling Plan Implementation, submitted to NJDEPE on March 12, 1991.
2. ECRA Case #89560 - ECRA Sampling Plan, Microwave Semiconductor Corporation, submitted to NJDEPE on September 25, 1990.
3. SGS Drinking Water Analytical Data, QC Incorporated, August 5, 1992.
4. Record of Telephone Conversation between Mark Souders (NJDEPE Bureau of Environmental Evaluation and Cleanup Responsibility Assessment) and Dorothea Downs (Ebasco) dated August 10, 1992.
5. The Geology of New Jersey, Department of Conservation and Development State of New Jersey, New Jersey Printing company, 1940.
6. Record of Telephone Conversation between Dan Van Abs (NJDEPE Wellhead Protection Program) and Kara McGuirk (Ebasco) dated June 16, 1992.
7. Environmental Impactment Assessment for Microwave Semiconductor Corporation, Lockwood Greene Engineers, July 12, 1985.
8. Climatic Atlas of the United States, United States Department of Commerce, 1963 (reprinted 1983).
9. Record of Telephone Conversation between Patty Elliot (Franklin Township Department of Health) and Dorothea Downs dated June 17, 1992.
10. ECRA Case #89560 - Results of Additional Groundwater Quality Delineation submitted August 4, 1992.
11. ECRA Case #89560 - Results of ECRA Sampling Plan Implementaiton, Appendix E & F, submitted March 12, 1992.
12. Record of Telephone Conversation between Harry Wister (SGS) and Dorothea Downs (Ebasco) dated July 7, 1992.
13. Bound Brook, New Jersey Quadrangle, United States Geological Survey, 1955 (revised 1977).
14. New Brunswick, New Jersey Quadrangle, United States Geological Survey, 1955 (revised 1981).
15. Record of Telephone Conversation between Frank Metz (Franklin Township Engineering Department) and Dorothea Downs (Ebasco) dated June 16, 1992.
16. Record of Telephone Conversation between Max Jakofsky (Core of Engineers) and Dorothea Downs (Ebasco) dated January 1, 1992.
17. Record of Telephone Conversation between Joe Schenk (Newark Weather Service) and Dorothea Downs (Ebasco) dated June 16, 1992.

18. Surface Water Intake Locations Report, NJDEPE Bureau of Safe Drinking Water, March 1992.
19. Facsimile Transmittal from Cheryl Silakoski (Middlesex Water Company) dated August 28, 1992.
20. Record of Telephone Conversation between Ed O'Rourke (New Brunswick Water Department) and Kara McGuirk dated August 11, 1992.
21. Record of Telephone Conversation between Bob Soldwetel (NJDEPE Freshwater Fisheries) and Dorothea Downs (Ebasco) dated June 16, 1992.
22. Monmouth Junction NE, Freshwater Wetlands Map, New Jersey Department of Protection, 1986.
23. Potential Threatened and Endangered Vertebrate Species Reports for Somerset and Middlesex Counties, NJDEPE Natural Heritage Program, July 1992.
24. Record of Telephone Conversation between Tod Boyer (NJDEPE Air Pollution) and Dorothea Downs (Ebasco) dated July 7, 1992.
25. Graphical Exposure Modeling System, General Science Corporation, April 1990.
26. Record of Telephone Conversation between Maria Baratta (NJDEPE Library) and Kara McGuirk (Ebasco) dated June 18, 1992.
27. SGS Population Calculation Sheet, August 25, 1992.
28. Site Reconnaissance Logbook, Ebasco Services, Incorporated, August 4, 1992.
29. SGS Drinking Water Population Calculation Sheet, August 31, 1992.
30. Franklin Township Section, Map of Somerset County, New Jersey, 1991.
31. Record of Telephone Conversation between Chris Budsock (Franklin Township Tax Collectors Office) and Dorothea Downs (Ebasco) dated June 18, 1992.
32. Record of Telephone Conversation between Mrs. Norman Fisher and Dorothea Downs (Ebasco) dated August 31, 1992.
33. Compliance Evaluation Inspection for Microwave Semiconductor Corporation, USEPA, November 22, 1988.

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OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM				IDENTIFICATION		
				State: NJ	CERCLIS Number: NJD044655140	
				CERCLIS Discovery Date: 1980		
1. General Site Information						
Name: SGS Thomson Micro Electronics			Street Address: 100 Schoolhouse Road (14/25)			
City: Somerset		State: NJ	Zip Code: 08873	County: Somerset	Co. Code: 18	Cong. Dist:
Latitude: 40 31' 40.0"		Longitude: 74 34' 24.0"		Approx. Area of Site: 48 acres		Status of Site: Active
2. Owner/Operator Information						
Owner: Siemens/SGS Thomson			Operator: Siemens/SGS Thomson			
Street Address: 14/25 Schoolhouse Road			Street Address: 14/25 Schoolhouse Road			
City: Somerset			City: Somerset			
State: NJ	Zip Code: 08873	Telephone: 908-563-6300		State: NJ	Zip Code: 08873	Telephone: 908-563-6300
Type of Ownership: Private			How Initially Identified: RCRA/CERCLA Notification			

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POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State: NJ CERCLIS Number:
NJD044655140

CERCLIS Discovery Date:
1980

3. Site Evaluator Information

Name of Evaluator:
Dorothea Downs

Agency/Organization:
Ebasco Services, Inc.

Date Prepared:
9/25/92

Street Address:
111 N. Canal Street

City:
Chicago

State:
IL

Name of EPA or State Agency Contact:
Luz Martinez

Telephone:
212-264-4561

Street Address:
26 Federal Plaza, 13th Floor

City:
New York

State:
NY

4. Site Disposition (for EPA use only)

Emergency
Response/Removal
Assessment
Recommendation: No

CERCLIS
Recommendation:
Lower Priority SI

Signature:

Name:

Date:

Date:

Position:

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM		IDENTIFICATION <hr/> State: NJ CERCLIS Number: NJD044655140 <hr/> CERCLIS Discovery Date: 1980	
5. General Site Characteristics			
Predominant Land Uses Within 1 Mile of Site: Industrial Residential Forest/Fields		Site Setting: Rural	Years of Operation: Beginning Year: 1969 Ending Year: 1992
Type of Site Operations: Manufacturing Electronic Equipment RCRA 'Protective Filer'		Waste Generated: Onsite <hr/> Waste Deposition Authorized By: Present Owner <hr/> Waste Accessible to the Public No <hr/> Distance to Nearest Dwelling, School, or Workplace: 0 Feet	
6. Waste Characteristics Information			
Source Type Contaminated soil Drums Non-drum containers Non-drum containers Non-drum containers Non-drum containers	Quantity 1.20e+02 3.00e+00 1.00e+03 1.00e+03 2.00e+03 4.50e+03	Tier sq ft A drums V gals V gals V gals V gals V	General Types of Waste: Organics Solvents Acids/Bases <hr/> Physical State of Waste as Deposited Liquid
Tier Legend C = Constituent W = Wastestream V = Volume A = Area			

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM		IDENTIFICATION	
		State: NJ	CERCLIS Number: NJD044655140
		CERCLIS Discovery Date: 1980	
7. Ground Water Pathway			
Is Ground Water Used for Drinking Water Within 4 Miles: No	Is There a Suspected Release to Ground Water: Yes	List Secondary Target Population Served by Ground Water Withdrawn From:	
Type of Ground Water Wells Within 4 Miles: Private	Have Primary Target Drinking Water Wells Been Identified: No	0 - 1/4 Mile	36
		>1/4 - 1/2 Mile	10
		>1/2 - 1 Mile	3252
		>1 - 2 Miles	5298
		>2 - 3 Miles	3298
		>3 - 4 Miles	3298
		Total	15192
Depth to Shallowest Aquifer: 19 Feet	Nearest Designated Wellhead Protection Area: None within 4 Miles		
Karst Terrain/Aquifer Present: No			

POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State: NJ CERCLIS Number: NJD044655140

CERCLIS Discovery Date: 1980

8. Surface Water Pathway

Part 1 of 4

Type of Surface Water Draining
Site and 15 Miles Downstream:Stream
River
OceanShortest Overland Distance From Any
Source to Surface Water:2150 Feet
0.4 MilesIs there a Suspected Release to
Surface Water: NoSite is Located in:
> 500 yr floodplain

8. Surface Water Pathway

Part 2 of 4

Drinking Water Intakes Along the Surface Water Migration Path: Yes

Have Primary Target Drinking Water Intakes Been Identified: No

Secondary Target Drinking Water Intakes:

Name	Water Body/Flow(cfs)	Population Served
Middlesex WC	moderate-large stream/ >100-1000	125000
New Brunswick	moderate-large stream/ >100-1000	100000
Total Within 15 Miles:		225000

<p>POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM</p>	<p>IDENTIFICATION</p> <hr/> <p>State: NJ CERCLIS Number: NJD044655140</p> <hr/> <p>CERCLIS Discovery Date: 1980</p>
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8. Surface Water Pathway Part 3 of 4

Fisheries Located Along the Surface Water Migration Path: Yes

Have Primary Target Fisheries Been Identified: No

Secondary Target Fisheries:

Fishery Name	Water Body Type/Flow(cfs)
Randolph Brook	minimal stream/ <10
Raritan River	large stream/river/ >1000-10000
Delaware-Raritan Can	large stream/river/ >1000-10000
Raritan Bay	Coastal,ocean,Gr.Lakes

8. Surface Water Pathway Part 4 of 4

Wetlands Located Along the Surface Water Migration Path? (y/n) Yes

Have Primary Target Wetlands Been Identified? (y/n) No

Secondary Target Wetlands:

Water Body/Flow(cfs)	Frontage(mi)
minimal stream/ <10	>4 to 8

Other Sensitive Environments Along the Surface Water Migration Path: Yes

Have Primary Target Sensitive Environments Been Identified: No

Secondary Target Sensitive Environments:

Water Body/Flow(cfs)	Sensitive Environment Type
large stream/river/ >1000-10000	State designated areas for aquatic life u
large stream/river/ >1000-10000	State designated areas for aquatic life u
Coastal,ocean,Gr.Lakes	Sensitive Areas under parts of Clean Wate

POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State: NJ CERCLIS Number:
NJ D04465140CERCLIS Discovery Date:
1980

9. Soil Exposure Pathway

Are People Occupying Residences or
Attending School or Daycare on or
Within 200 Feet of Areas of Known
or Suspected Contamination: No

Number of Workers Onsite: 1 - 100

Have Terrestrial Sensitive Environments Been Identified on or Within
200 Feet of Areas of Known or Suspected Contamination: Yes

Terrestrial Sensitive Environments:

Critical habitat for Federally designated endang/threat species

10. Air Pathway

Total Population on or Within:	
Onsite	36
0 - 1/4 Mile	0
>1/4 - 1/2 Mile	65
>1/2 - 1 Mile	2352
>1 - 2 Miles	9709
>2 - 3 Miles	11484
>3 - 4 Miles	31120
Total	54766

Is There a Suspected Release to Air: No

Wetlands Located

Within 4 Miles of the Site: No

Other Sensitive Environments Located

Within 4 Miles of the Site: Yes

Sensitive Environments Within 1/2 Mile of the Site:

Distance	Sensitive Environment Type/Wetlands Area(acres)
0 - 1/4	Habitat for Federally designated endangered/threatened species
>1/4 - 1/2	State designated areas for aquatic life under Clean Water Act

REFERENCE LIST

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3. SGS Drinking Water Analytical Data, QC Incorporated, August 5, 1992.
4. Record of Telephone Conversation between Mark Souders (NJDEPE Bureau of Environmental Evaluation and Cleanup Responsibility Assessment) and Dorothea Downs (Ebasco) dated August 10, 1992.
5. The Geology of New Jersey, Department of Conservation and Development State of New Jersey, New Jersey Printing company, 1940.
6. Record of Telephone Conversation between Dan Van Abs (NJDEPE Wellhead Protection Program) and Kara McGuirk (Ebasco) dated June 16, 1992.
7. Environmental Impactment Assessment for Microwave Semiconductor Corporation, Lockwood Greene Engineers, July 12, 1985.
8. Climatic Atlas of the United States, United States Department of Commerce, 1963 (reprinted 1983).
9. Record of Telephone Conversation between Patty Elliot (Franklin Township Department of Health) and Dorothea Downs dated June 17, 1992.
10. ECRA Case #89560 - Results of Additional Groundwater Quality Delineation submitted August 4, 1992.
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12. Record of Telephone Conversation between Harry Wister (SGS) and Dorothea Downs (Ebasco) dated July 7, 1992.
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17. Record of Telephone Conversation between Joe Schenk (Newark Weather Service) and Dorothea Downs (Ebasco) dated June 16, 1992.

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18. Surface Water Intake Locations Report, NJDEPE Bureau of Safe Drinking Water, March 1992.
19. Facsimile Transmittal from Cheryl Silakoski (Middlesex Water Company) dated August 28, 1992.
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21. Record of Telephone Conversation between Bob Soldwetel (NJDEPE Freshwater Fisheries) and Dorothea Downs (Ebasco) dated June 16, 1992.
22. Monmount Junction NE, Freshwater Wetlands Map, New Jersey Department of Protection, 1986.
23. Potential Threatened and Endangered Vertebrate Species Reports for Somerset and Middlesex Counties, NJDEPE Natural Heritage Program, July 1992.
24. Record of Telephone Conversation between Tod Boyer (NJDEPE Air Pollution) and Dorothea Downs (Ebasco) dated July 7, 1992.
25. Graphical Exposure Modeling System, General Science Corporation, April 1990.
26. Record of Telephone Conversation between Maria Baratta (NJDEPE Library) and Kara McGuirk (Ebasco) dated June 18, 1992.
27. SGS Population Calculation Sheet, August 25, 1992.
28. Site Reconnaissance Logbook, Ebasco Services, Incorporated, August 4, 1992.
29. SGS Drinking Water Population Calculation Sheet, August 31, 1992.
30. Franklin Township Section, Map of Somerset County, New Jersey, 1991.
31. Record of Telephone Conversation between Chris Budsock (Franklin Township Tax Collectors Office) and Dorothea Downs (Ebasco) dated June 18, 1992.
32. Record of Telephone Conversation between Mrs. Norman Fisher and Dorothea Downs (Ebasco) dated August 31, 1992.
33. Compliance Evaluation Inspection for Microwave Semiconductor Corporation, USEPA, November 22, 1988.